| Ref<br># | Hits | Search Query  | DBs  | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|---|--|---------------------|---------|------------------|
| S10<br>4 | 9981 | (375/295 375/303 375/324 375/340 375/130 375/329 375/148 375/149 375/343 375/148 375/239 375/150).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR                  | ON      | 2006/08/31 20:59 |
| S14<br>4 | 643  | (another or separate) with (training or pilot) with (sent or transmi\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR                  | ON      | 2006/08/31 23:03 |
| S85      | 286  | (UWB or (impulse near radio) or (ultra\$1wide) or (ultra adj wide)) and ((rake or finger or correlat\$3) same receiver) and (channel near3 (estimat\$3 or impulse)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR                  | ON      | 2006/08/31 18:37 |
| S95      | 254  | (uwb or ultra-wide or ultrawide)<br>and rake  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR                  | ON      | 2006/08/31 21:02 |
| S16<br>9 | 213  | DS\$1CDMA and (channel with equali\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR                  | ON      | 2006/09/01 00:08 |
| S40      | 186  | (sampl\$3 with (equal or "same")<br>with (data or symbol) with rate)<br>and (chip near2 rate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR                  | ON      | 2006/08/31 15:09 |
| S96      | 166  | (uwb or ultra-wide or ultrawide)<br>and rake and ((channel near2<br>(estimat\$3 or response)) or<br>equali\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR                  | ON      | 2006/08/31 20:42 |
| S12<br>2 | 148  | (impulse near radio) and rake   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR                  | ON      | 2006/08/31 21:53 |
| S59      | 108  | (sampl\$3 with (equal or "same")<br>with (data or symbol or bit) with<br>(rate or frequency or speed)) same<br>((chip or PN) near2 (rate or<br>frequency or speed)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR                  | ON      | 2006/08/31 16:25 |

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|----------|-----|---|--|--------------|----|------------------|
| S5       | 103 | ((rake or finger) same ((sampl\$3 with rate)) same (add\$3 or summ\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR           | ON | 2006/08/31 13:23 |
| S50      | 96  | (sampl\$3 with (equal or "same")<br>with (data or symbol or bit) with<br>rate) same ((chip or PN) near2<br>rate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR           | ON | 2006/08/31 15:47 |
| S11<br>4 | 62  | S113 and S104   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR           | ON | 2006/08/31 21:36 |
| S17<br>2 | 57  | S171 not S170   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR           | ON | 2006/09/01 00:14 |
| S74      | 55  | S73 not S72   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR           | ON | 2006/08/31 16:46 |
| S47      | 51  | sampl\$3 with (less or slower) with chip near2 (rate or speed)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR<br>-      | ON | 2006/08/31 15:31 |
| S12<br>1 | 51  | S120 not S119   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR           | ON | 2006/08/31 21:51 |
| S72      | 49  | (sampl\$3 with (chip or PN) with (fraction or less or slower)) and (rake or finger or (correlat\$3 near3 (plurality or parallel))) and (channel near2 estimat\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR           | ON | 2006/08/31 16:36 |
| S91      | 47  | (uwb or ultra\$1wide or (ultra adj<br>wide) or (impulse near radio)) and<br>(rake with (finger or branch))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO             | OR           | ON | 2006/08/31 18:59 |

| S13      | 42 | MOLISCH near ANDREAS  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2006/08/31 13:43 |
|----------|----|---|--|----|----|------------------|
| S88      | 42 | (US-20030236089-\$ or US-20020196871-\$ or US-20010038617-\$ or US-20040196933-\$ or US-20040071199-\$ or US-20030179812-\$ or US-20030036359-\$ or US-20050105598-\$ or US-20040136316-\$ or US-20020141482-\$ or US-20020141482-\$ or US-20020037028-\$ or US-2004002347-\$ or US-20040125862-\$ or US-20040170218-\$ or US-20040190641-\$ or US-20040190641-\$ or US-20040146092-\$).did. or (US-7039134-\$ or US-6201799-\$ or US-6426973-\$ or US-6428291-\$ or US-6014405-\$ or US-602727-\$ or US-6366607-\$ or US-6222875-\$ or US-6366607-\$ or US-6563859-\$ or US-6456647-\$ or US-6618430-\$ or US-6456647-\$ or US-6618430-\$ or US-6831956-\$ or US-7050483-\$). did. | US-PGPUB;<br>USPAT   | OR | ON | 2006/08/31 18:45 |
| S14<br>7 | 42 | ((another or separate) with (training or pilot) with (sent or transmi\$4)) and (DS\$1CDMA)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2006/08/31 23:07 |
| S11<br>7 | 41 | (uwb or ultra-wide or ultrawide)<br>and (rake near3 receiv\$3) and<br>((channel near2 (estimat\$3 or<br>response)) or equali\$3) and<br>(training or pilot)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT          | OR | ON | 2006/08/31 21:37 |
| S82      | 41 | (UWB or (impulse near radio) or (ultra\$1wide) or (ultra adj wide)) and ((rake or finger or correlat\$3) same receiver) and (channel adj estima\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/08/31 18:35 |

| S39      | 37 | (((less or slower) near2 (chip)<br>near2 rate) with (data or symbol))              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | ON | 2006/08/31 15:08 |
|----------|----|--|--|----|----|------------------|
| S31      | 34 | ((sampling or sampl\$3 near2 rate) with (less or slower or fraction) near2 (chip)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | ON | 2006/08/31 14:55 |
| S17<br>0 | 28 | DS\$1CDMA and (channel with equali\$4 with coefficient) and rake                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO | OR | ON | 2006/09/01 00:13 |